

What is claimed is:

1. A water cooling type cooling jacket for an electric device comprising:

a pouch body formed of a soft, loose elastic material that is deformable to closely contact heat-generating elements having various shapes due to a contact pressure and
5 accommodating and a coolant; and

a coolant inlet tube and a coolant outlet tube formed at one side of the pouch body to allow the coolant to circulate inside the pouch body and connected to coolant circulation lines for circulating the coolant.

2. The water cooling type cooling jacket according to claim 1, wherein the pouch body is formed by interposing the filler between two transparent vinyl sheets, putting peripheries of the sheets together and hermetically sealing the same.

3. The water cooling type cooling jacket according to claim 1, wherein the pouch body has bent lines so as to bent according to the shape of the heat-generating element.

4. The water cooling type cooling jacket according to claim 3, wherein the pouch body has partitions so as to form a passageway therein, or for uniform flow of the coolant, and an internal outlet of the coolant inlet pipe and an internal inlet of the coolant outlet pipe are disposed at opposite diagonal edges so as to have the longest distance
5 therebetween.

5. The water cooling type cooling jacket according to claim 1, further comprising a porous filler sponge which is soft and lose for smooth circulation of a coolant and has a predetermined elasticity in order to establish a circulation space for a coolant and to obtain a versatile contact elasticity.

6. The water cooling type cooling jacket according to claim 1, wherein one surface of the pouch body contacting the heat-generating element closely adheres to a material having abrasion resistance, heat conductivity and thermal resistance.

7. The water cooling type cooling jacket according to claim 1, further comprising an adhering means for pressing the heat-generating element for fixing the pouch body to the heat-generating element.

8. The water cooling type cooling jacket according to claim 7, wherein the adhering means is a clipping device for clipping the pouch body and the heat-generating element using an elastic spring.

9. The water cooling type cooling jacket according to claim 7, wherein the adhering means comprises:

a push rod contacting the pouch body and installed so as to elevatably move; and

5 a switching lever rotating about a rotation shaft and fixed to a cam slidably contacting the push rod so as to selectively elevate the push rod.

10. The water cooling type cooling jacket according to claim 8, further comprising:

a casing surrounding the heat-generating element and the pouch body and filled with cooling oil contacting the surface of the pouch body to serve as a secondary coolant;

5 a pressure exhauster including a pressure exhaust pipe installed on the internal ceiling of the casing and a pressure exhaust valve connected to the pressure exhaust pipe and exhausting high-pressure air or air bubbles to the outside;

an oil supply cap installed on the casing to refill the oil; and

10 an input/output connector sealed on the external surface of the casing so as to allow electrical connection between the heat-generating element and a controller for a computer.

11. A buffer jacket using a water cooling type cooling jacket for an electronic device comprising:

5 a pouch body formed of a soft, loose elastic material that is deformable to closely contact heat-generating elements having various shapes due to a contact pressure and accommodating and a coolant;

an air pipe formed at one side of the pouch body so as to allow inflow or outflow of air according to the internal pressure of the pouch body;

10 a casing accommodating the heat-generating element using internal cooling oil and the pouch body hermetically sealed or having the air pipe exposed outside, filled with the cooling oil contacting the heat-generating element to serve as a secondary coolant, and formed of a metal case that is hermetically sealed for dissipating heat outside;

an oil supply cap installed on the casing for refilling or replacing the internal cooling oil of the casing; and

15 an input/output connector installed in the casing to electrically connect the heat-generating element with the controller for a computer.